

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Boyd, Richard

Examiner: TBA

Serial No.:

10/748,450

Group Art Unit: TBA

, FW

Date Filed:

December 30, 2003

For: Stimulation of Thymus for Vaccination Development

Atty. Docket No.: NOR-011CP2/286336.150US1

CERTIFICATION OF MAILING UNDER 37 C.F.R. 1.8(a)

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INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b)(3), the Applicant herewith submits the references on the attached Form PTO-1449, of which copies are enclosed. It is respectfully requested that the information enclosed be expressly considered during the prosecution of this application and that the publications be made of record therein and appear among the "References Cited" on any patent to issue therefrom. In this regard, it is asked that the Examiner initial and return a copy of the attached Form PTO-1449 with the next Patent Office Communication.

This submission does not represent that a search has been carried out nor does it constitute an admission that the listed documents are material to the patentability of the invention, or that this enclosed art represents prior art. Applicant reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

U.S. Patent Application No. 10/748,450 Information Disclosure Statement Page 2 of 2

It is the Applicant's belief that the filing of this Information Disclosure Statement precedes the date of the mailing of the first Office Action on the merits, therefore, pursuant to 37 C.F.R. §1.97(b)(3), no fee is believed to be due. In the event that any outstanding fee(s) are due, the Commissioner is authorized to charge any fee deficiency or credit any overpayment to Deposit Account No. <u>08-0219</u>.

Respectfully submitted,

Agent for Applicants

Ann-Louise Kerner, Ph.D., Reg. No. 33,523

Date: August 6, 2004

WILMER CUTLER PICKERING HALE AND DORR LLP 60 State Street Boston, MA 02119 (617)-526-6000 (Telephone) (617)-526-5000 (Facsimile)

BOSTON 1917461v1

PTO/SB/21 (08-03) Approved for use through 07/31/2006, OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/748.450 TRANSMITTAL Filing Date 12/30/2003 **FORM** First Named Inventor Richard Boyd Art Unit **TBA** (to be used for all correspondence after initial filing) **Examiner Name TBA** Attorney Docket Number 20 NOR-011CP2/286336.150 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication Fee Transmittal Form Drawing(s) to Group Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to Group Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a **Proprietary Information** After Final **Provisional Application** Power of Attorney, Revocation Status Letter Change of Correspondence Address Affidavits/declaration(s) Other Enclosure(s) (please Terminal Disclaimer Identify below): **Extension of Time Request** Postcard Request for Refund **Express Abandonment Request** - Forms PTO-1449 CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Copies of 337 Cited References Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Nancy Wilker Individual name Signature 7/Ken Date 08/06/2004

CERTIFICATE OF TRANSMISSION/MAILING

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Janet McKean

Signature

1 an

Date 08/06/2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,972,859	Aug 3, 1976	Fujino et al.			
	3,992,365	Nov 16, 1976	Beddell et al.			
	4,003,884	Jan 18, 1977	Konig et al.			
	4,005,063	Jan 25, 1977	Gendrich et al.			
	4,008,209	Feb 15, 1977	Fujino et al.			
	4,010,125	Mar 1, 1977	Schally et al.			
	4,010,149	Mar 1, 1977	Baba et al.			
	4,018,726	Apr 19, 1977	Schally et al.			

		Foreign	Patent Docum	ents			
EXAMINER INITIAL	DOCUMENT NUMBER	I DATE I COUNTRY I CLASS I	SUBCLASS	TRANSLATION YES NO			
	76177/91	Nov 19, 1992	Australia	<u> </u>			
	56394/94	Sep 1, 1994	Australia				
	181236	May 14, 1986	Europe				
	217659	Apr 8, 1987	Europe				
	364819	Apr 25, 1990	Europe				

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A1	Aboudkhil et al., (1991) Scand. J. Immunol. 34, 647-653
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А3	Ali et al., (2000) Transplantation 69:221
A4	Alpdogan et al., (2001) Blood 98:2256
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A7	Andersen, (1994) Infect. Immunity, 62:2536
A8	Andrew et al., (2002) Exp. Gerontol. 37:455
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,024,121	May 17, 1977	Schally et al.			
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	4,100,274	Jul 11, 1978	Dutta et al.			
	4,118,483	Oct 3, 1978	Konig et al.			
	4,128,638	Dec 5, 1978	Moody			
	4,218,439	Aug 19, 1980	Rivier et al.			
	4,234,571	Nov 18, 1980	Nestor et al.			
	4,275,001	Jun 23, 1981	Konig et al.			

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EXAMINER	DOCUMENT	DOCUMENT DATE		CLASS	SUBCLASS	TRANSLATION	
INITIAL	NUMBER	0,112	COUNTRY			YES	NO
	413209	Feb 20, 1991	Europe				
	7923545	Sep 21, 1979	France				
	2509783	Sep 11, 1975	Germany				
	9112825	Jul 31, 1991	Great Britain				
	9112859	Jul 31, 1991	Great Britain				

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A10	Aspinall, et al., (2000) Vaccine 18:1629
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A15	Bahnson <i>et al.</i> , (1997) "Method for Retrovirus-Mediated Gene Transfer to CD34+- Enriched Cells," in Gene Therapy Protocols (P.D. Robbins, ed.), Humana Press, pp.249-263
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		U.S.	Patent Documer	nts		·
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,490,291	Dec 25, 1984	Fujino			
	4,608,251	Aug 26, 1986	Mia			
	4,642,332	Feb 10, 1987	Folkers et al.			
	4,656,247	Apr 7, 1987	Folkers et al.			
	4,775,361	Oct 4, 1988	Jacques et al.			
	4,866,160	Sep 12, 1989	Coy et al.			
	4,992,421	Feb 12, 1991	De et al.			
	5,003,011	Mar 26, 1991	Coy et al.			

		Foreign	Patent Docum	ents			
EXAMINER	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL	NUMBER	DATE	00011111	ODAGO	JODOLAGG	YES	NO
	WO 88/01176	Feb 25, 1988	WO				
	WO 92/19746	Nov 12, 1992	WO				
	WO 93/15722	Aug 19, 1993	wo				
	WO 94/26285	Nov 24, 1994	WO				

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A17	Basch, Ross S. (1990) Aging: Immunology and Infectious Disease, Vol. 2, No. 4, 229-235
A18	Batard et al., (2000) J. Cell. Sci. 113:383-90
A19	Bauer, G., et al., (1997) Blood 89:2259-2267
A20	Belmont and Jurecic (1997) "Methods for Efficient Retrovirus-Mediated Gene Transfer to Mouse Hematopoietic Stem Cells," in <u>Gene Therapy Protocols</u> (P.D. Robbins, ed.), Humana Press, pp. 223-240
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,061,620	Oct 29, 1991	Tsukamoto et al.			
	5,073,624	Dec 17, 1991	Coy et al.			
	5,144,019	Sep 1, 1992	Rossi et al.			
	5,199,942	Apr 6, 1993	Gillis			
	5,258,492	Nov 2, 1993	Schally et al.			
	5,736,524	Apr. 7, 1998	Content et al.			
	5,399,493	Mar 21, 1995	Emerson et al.			
	5,410,016	Apr 25, 1995	Hubbell et al.			
	5,506,207	Apr 9, 1996	Rivier et al.			

		Foreign	Patent Docum	ents			
EXAMINER	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL	NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	WO 94/26877	Nov 24, 1994	WO				
	WO 95/08105	Mar 23, 1995	WO				
	WO 96/14853	Mar 23, 1996	WO				
	WO 96/33281	Oct 24, 1996	WO				
	WO 96/33282	Oct 24, 1996	wo				

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A22	Berzins, S.P., Boyd, R.L. and Miller, J.F.A.P., (1998) <i>J Exp. Med.</i> 187: 1839
A23	Bloom and Murray, (1993) Science 257, 1055
A24	Bodey et al., (1997) In Vivo 11(4): 351-370
A25	Bodey et al., (1997) In Vivo 11(5): 421-440
A26	Bolotin et al., (1996) Blood 88:1887
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	5,559,703	Sep 24, 1996	lwata et al.			
	5,614,187	Mar 25, 1997	Sachs			-
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		Foreign	Patent Docum	nents			
EXAMINER	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL	INITIAL NUMBER	DATE		02,00	000001.00	YES	NO
	WO 98/08533	Mar 5, 1998	WO				
	WO 98/23325	Jun 4, 1998	WO				
	WO 99/29728	Jun 17, 1999	WO				
	WO 99/32619	Jul 1, 1999	WO				
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	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A29	Bonyhadi, M.L., <i>et al.</i> , (1997) <i>J. Virology</i> 71:4707-4716
A30	Borremans et al., (1989) Infect. Immunity 57:3123
A31	Boyd, R.L., Tucek, C.L., Godfrey, D.I., Wilson, T.J, Davidson, N.J., Bean, A.G.D., Ladyman, H.M., Ritter, M.A. and Hugo, P., (1993) <i>Immunology Today</i> 14:445
A32	Bruijntjes, J.P., Kuper, C.J., Robinson, J.E. and Schutirman, H.J., (1993) <i>Dev. Immunol.</i> 3:113
A33	Capecchi, M.R., (1980) <i>Cell</i> 22:479-488
A34	Carayon, P., and Bord, A., (1992) J. Imm. Methods 147:225

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,658,892	Aug 19, 1997	Flotte et al.			
	5,681,559	Oct 28, 1997	DiGiusto et al.			
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EXAMINER	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL	NUMBER					YES	NO
	WO 01/34815	May 17, 2001	wo				
	WO 03/51272	Jun 26, 2003	WO				

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A35	Castle, S.C., (2000) Clin Infect Dis 31(2): 578-585
A36	Charoenvit et al., (1991) J. Immunol. 146: 1020
A37	Coleman et al., (1989) Ultrasound Med. Biol. 15:213-227
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,876,708	Mar 2, 1999	Sachs			
	6,030,833	Feb 29, 2000	Seebach et al.			
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	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A42	DeWit et al., (1994) DNA Seq. 4:267
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A44	Doria, G., Mancini, C., Utsuyama, M., Frasca, D. and Hirokawa, K, (1997) <i>Mech. Age. Dev.</i> 95: 131-142
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A47	Douek, D.C., McFarland, R.D., Keiser, P.H., Gage, E.A., Massey, J.M., Haynes, B.F., Polis, M.A., Haase, A.T., Feinberg, M.B., Sullivan, J.L., Jamieson, B.D., Zack, J.A., Picker, L.J. and Koup, R.A., (1998) <i>Nature</i> 396:690
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A49	Doukas et al., (1995) Ultrasound Med. Biol. 21:961
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		U.S.	Patent Documer	nts		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,558,663	May 6, 2003	Seebach et al.			

		Foreign	Patent Docume	ents			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS YES	LATION NO

		Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
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	A59	Fan <i>et al.</i> , (2002) <i>J. Immunol</i> . 168:755-62
	A60	Fearon and Locksley (1996) Science 272:50
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	A66	Fredrickson, G.G. and Basch, R.S., (1994) Development and Comparative Immunology 18:251
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A74	Girasole <i>et al.</i> , (1992) <i>J. Clin. Invest.</i> 89:883			
A75	Godfrey, D. I, and Zlotnik, A., (1993) Immunol. Today 14:547			
A76	Godfrey, D.I, Izon, D.J., Tucek, C.L., Wilson, T.J. and Boyd, R.L., (1990) <i>Immunol</i> . 70:66			
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A80	Graham, F.L. and Van Der Eb, A.J., (1973) <i>Virology</i> 52:456-457			
A81	Greenstein <i>et al.</i> , (1987) <i>J. Endocr.</i> , 112, 345-350			
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A83	Grossman, Charles J. (1984) Endocrine Reviews, 5(3): 435-455			
A84	Grossman, Charles J. (1985) <i>Science</i> 227: 256-261			
A85	Hadden, John W. (1998) New York Academy of Sciences, 840: 352-358			
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A87	Haseloff and Gerlach (1988) Nature 334:585			
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A89	Hazenberg et al., (2001) J. Mol. Med. 79:631-40			
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A93	Hirokawa, K. and Makinodan, T., (1975) J. Immunol. 114:1659
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A99	Homo-Delarche et al., (1993) Springer Sem. Immunopathol. 14:221
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